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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/220,434	12/24/1998	YOSHIAKI SHIOTA	P/2850-15	3503	
7	7590 12/27/2001				
OSTROLENK FABER GERB & SOFFEN			EXAMINER		
	E OF THE AMERICAS NY 100368403		TRAN, THIEN D		
			ART UNIT	PAPER NUMBER	
			2662		
			DATE MAILED: 12/27/2001	DATE MAILED: 12/27/2001	

Please find below and/or attached an Office communication concerning this application or proceeding.

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4 /		Application No.	Applicant(s)	- '4
	Office Action Communication	09/220,434	SHIOTA, YOSHIAKI	
	Office Action Summary	Examiner	Art Unit	
		Thien D Tran	2662	
Period for Re	e MAILING DATE of this communication app ply	ears on the cover sheet wi	th the correspondence address	
- Extensions 6 after SIX (6) - If the period - If NO period - Failure to re - Any reply rec	ENED STATUTORY PERIOD FOR REPLY ING DATE OF THIS COMMUNICATION. of time may be available under the provisions of 37 CFR 1.13 MONTHS from the mailing date of this communication. for reply specified above is less than thirty (30) days, a reply for reply is specified above, the maximum statutory period we ply within the set or extended period for reply will, by statute, be ceived by the Office later than three months after the mailing and term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a rewithin the statutory minimum of thirty II apply and will expire SIX (6) MONTO CAUSE the application to become AB	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication	1 .
1) Res	sponsive to communication(s) filed on			
2a)☐ This	s action is FINAL . 2b)⊠ This	action is non-final.		
3) Sind	ce this application is in condition for alloward sed in accordance with the practice under E	nce except for formal mate x parte Quayle, 1935 C.E	ers, prosecution as to the merits is	S
Disposition of			, , , , , , , , , , , , , , , , , , , ,	
4)⊠ Clain	n(s) <u>1-11</u> is/are pending in the application.			
	of the above claim(s) is/are withdraw	n from consideration		
ľ	n(s) is/are allowed.			
l	n(s) <u>1-11</u> is/are rejected.			
	n(s) is/are objected to.			
[n(s) are subject to restriction and/or	election requirement		
Application Pa		oresiten roquitoritoritoritori		
9)☐ The s	· pecification is objected to by the Examiner.			
	rawing(s) filed on is/are: a) ☐ accept	ed or b) objected to by th	e Examiner	
	licant may not request that any objection to the			
I .	roposed drawing correction filed on		• •	
1	proved, corrected drawings are required in repl		, , , , , , , , , , , , , , , , , , , ,	
12) The oa	ath or declaration is objected to by the Exa	miner.		
Priority under	35 U.S.C. §§ 119 and 120			
13) Ackno	owledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	
	b) Some * c) None of:	•		
1. 🖂	Certified copies of the priority documents	have been received.		
2.	Certified copies of the priority documents		plication No.	
3	Copies of the certified copies of the priorit application from the International Bure	y documents have been reau (PCT Rule 17.2(a)).	eceived in this National Stage	
	e attached detailed Office action for a list of			
ř .	vledgment is made of a claim for domestic			n).
a) ∐ ∏ 15)□ Acknov	he translation of the foreign language provi wledgment is made of a claim for domestic	sional application has bee	en received.	
Attachment(s)	25	priority under 33 U.S.C. 9	3 120 d110/01 121.	
1) Notice of Ref	erences Cited (PTO-892)	4) 🔲 Interview Su	mmary (PTO-413) Paper No(s)	
2) 🔲 Notice of Dra	oftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Inf	ormal Patent Application (PTO-152)	
U.S. Patent and Trademark (Office	Other:	•	
PTO-326 (Rev. 04-01		n Summary	Part of Paper No. 4	Į

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is indefinite because the term "transmission circuit" is not defined.

Claim 2 is rejected because it is dependent to claim 1.

Claim 2 is rejected because there is insufficient antecedent basis for the term "the shift size".

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stoner et al (U.S Patent No 6,052,383) in the view of Chao (U.S Patent No 5,278,828).

Regarding claims 1 and 2, Stoner discloses a frame-relay circuit having a frame being written in a memory buffer 7 (fig.1).

Stoner does not disclose that the frame is written from an address shifted from the top of a frame buffer, which is well known in the art for data frame organization in the buffer.

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Chao, for example, discloses a cell (frame) being written in the memory pool 30 starting from the corresponding address in idle queue 34. In other words, the cell is written from an address shift from the top of a frame buffer (fig.8, line 50-65). Therefore it would have been obvious to one having ordinary in the art to use the circuit of Stoner the cell (frame) storing the feature of chao into it, so that received frames are stored in an organized manner in the buffer, and further improving the speed of the buffer.

Regarding claims 3, 6 and 9, Stoner discloses a frame-relay frame transmission circuit for reassembling a frame-relay frame into an asynchronous transfer mode cell comprising:

a Lan interface 18 (frame receiver) for receiving a frame through connection (fig.1);

a memory 7 for storing a receiving frame in a frame buffer (fig.1);

a SAR 34 for reassembling frame into ATM cell (fig.2A).

Stoner does not disclose a processor for determining a shift size for each connection, which is well known in the art for writing the received cell into the memory at corrected location.

Chao, for example, discloses an address distributor (processor) for determining the idle address (shift size) that being used for written a cell (frame) into the cell pool. Therefore, it would have been obvious to one having ordinary skill in the art to have a circuit of Stoner adding a processor of chao's system for determining a shift size for each connection so that the received cell is written into the memory at the corrected location in the memory, and further accessing to the buffer easier (fig.8).

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Regarding claims 4, 7 and 10, Stoner discloses a storing of address and path identification (DLCI) for read and writes into the memory. See Col.6, lines 55 to Col.7 line 25.

Regarding claims 5, 8 and 11, Stoner discloses a received frame is transmitted to direct memory access. See col.4 line 65.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- -Murakami et al (US Patent No. 5,768,274) discloses Cell multiplexer having cell delineation.
 - -Horton (US Patent No. 6,128,300) discloses Line card with modern interface.
- -Von Ahnen et al (US Patent No. 6,205,152 B1) discloses Frame relay-to-ATM interface circuit and method of operation.
- -Timbs (US Patent No. 5,878,045) discloses Method and apparatus for converting data stream in a cell based communication system.
- 5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (703) 306-5445. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attemps to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on (703) 305-4744. Any inquiry of a general

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nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Thien Tran

ALPUS H. HSU PRIMARY EXAMINER

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